

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P523763

Luminaire Tested: **SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523763
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-125D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8079.8 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

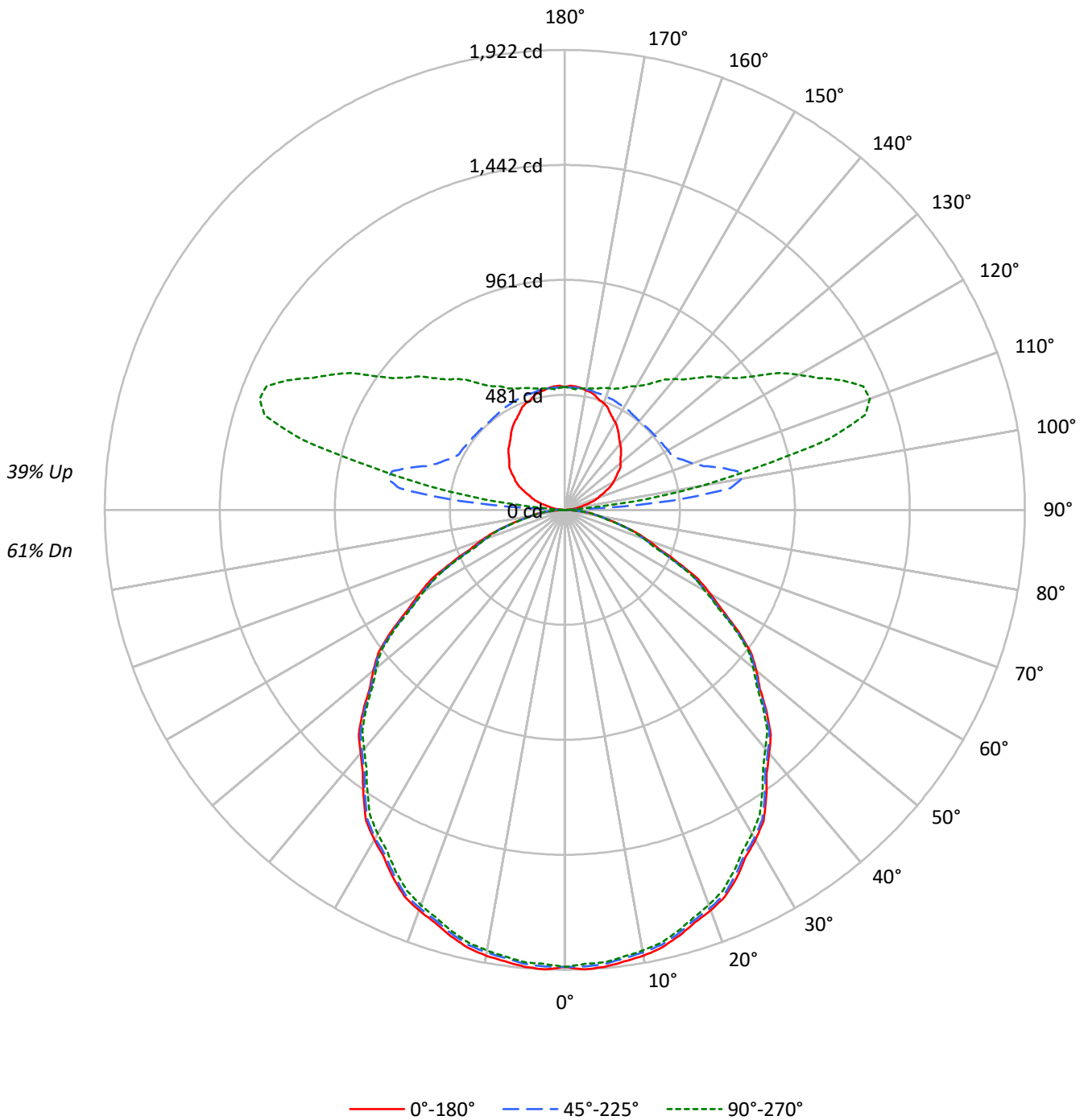
Input Watts (W): 79.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61		
1	100	96	92	89	94	90	87	84	79	76	74	68	66	65	59	57	56	52		
2	92	84	78	73	85	79	74	69	69	65	62	60	57	54	52	50	48	43		
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41	37		
4	77	66	58	52	71	62	55	49	54	49	44	48	43	40	41	38	35	32		
5	70	59	51	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28		
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27	24		
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22		
8	56	43	36	30	52	41	34	29	37	31	26	32	28	24	28	24	22	19		
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17		
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	20	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17624	17624	17624
5°	17753	17645	17583
10°	17723	17598	17519
15°	17606	17510	17414
20°	17489	17390	17259
25°	17282	17161	16991
30°	16961	16872	16658
35°	16517	16405	16197
40°	15990	15888	15707
45°	15553	15443	15291
50°	14995	14899	14754
55°	14218	14030	13922
60°	12944	12573	12511
65°	11402	10929	10892
70°	9846	9439	9439
75°	8473	8356	8235
80°	7470	7561	7385
85°	5843	6383	6383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	2.2
10°-20°	515.7	6.4
20°-30°	772.5	9.6
30°-40°	906.1	11.2
40°-50°	909.0	11.2
50°-60°	775.4	9.6
60°-70°	505.7	6.3
70°-80°	253.7	3.1
80°-90°	70.2	0.9
90°-100°	234.1	2.9
100°-110°	666.0	8.2
110°-120°	638.1	7.9
120°-130°	505.0	6.3
130°-140°	405.4	5.0
140°-150°	317.4	3.9
150°-160°	232.2	2.9
160°-170°	143.8	1.8
170°-180°	48.8	0.6
0°-30°	1468.9	18.2
0°-40°	2375.0	29.4
0°-60°	4059.4	50.2
0°-90°	4889.0	60.5
90°-120°	1538.2	19.0
90°-150°	2766.0	34.2
90°-180°	3191.0	39.5
0°-180°	8079.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1917	1899	1905	1898	1898	182
15°	1843	1825	1833	1826	1823	520
25°	1698	1678	1686	1671	1669	781
35°	1466	1452	1456	1440	1438	916
45°	1192	1184	1184	1172	1172	918
55°	884	881	872	867	866	786
65°	522	512	501	497	499	521
75°	238	238	234	233	231	258
85°	55	60	60	60	60	65
90°	0	0	0	0	0	3
95°	25	101	453	157	97	29
105°	104	157	679	1199	1140	110
115°	192	232	515	1090	1280	189
125°	272	301	491	815	975	243
135°	332	360	485	689	778	256
145°	392	412	489	596	649	245
155°	447	458	501	539	560	207
165°	494	496	507	518	525	139
175°	518	515	513	510	506	49
180°	514	514	514	514	514	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1910.2	1910.2	1910.2	1910.2	1910.2
2.5°	1922.2	1906.5	1910.2	1907.3	1899.5
5°	1916.9	1898.9	1905.2	1898.5	1898.5
7.5°	1903.8	1884.2	1890.4	1883.7	1883.4
10°	1891.8	1872.1	1878.4	1871.6	1870.0
12.5°	1874.4	1854.7	1862.3	1854.3	1853.9
15°	1843.2	1825.2	1833.2	1826.4	1823.1
17.5°	1808.1	1788.4	1798.0	1788.6	1787.3
20°	1781.3	1761.6	1771.2	1757.8	1757.8
22.5°	1749.1	1729.5	1740.4	1723.0	1723.0
25°	1697.6	1677.9	1685.8	1670.7	1669.1
27.5°	1636.3	1617.0	1625.2	1608.2	1607.8
30°	1592.1	1574.1	1583.7	1565.3	1563.6
32.5°	1543.9	1527.2	1534.2	1515.7	1514.1
35°	1466.5	1451.8	1456.5	1439.7	1438.1
37.5°	1385.2	1370.1	1375.5	1361.1	1360.4
40°	1327.6	1317.8	1319.2	1307.4	1304.1
42.5°	1274.0	1262.9	1264.3	1252.6	1251.9
45°	1192.0	1183.8	1183.6	1171.9	1171.9
47.5°	1104.9	1098.7	1096.9	1087.2	1086.8
50°	1044.7	1039.7	1038.0	1029.6	1027.9
52.5°	981.7	979.4	973.7	966.6	966.3
55°	883.9	880.7	872.2	867.2	865.5
57.5°	777.8	771.3	761.7	754.4	755.7
60°	701.5	694.9	681.4	678.0	678.0
62.5°	627.8	619.9	606.4	601.7	604.4
65°	522.3	512.5	500.6	497.3	498.9
67.5°	426.6	417.7	404.8	404.8	403.5
70°	365.0	360.0	349.9	349.9	349.9
72.5°	310.0	307.8	300.3	300.3	299.0
75°	237.7	237.7	234.4	232.7	231.0
77.5°	178.1	178.8	177.1	175.4	172.4
80°	140.6	143.9	142.3	140.6	139.0
82.5°	105.8	109.1	108.8	105.8	105.5
85°	55.2	60.2	60.3	60.3	60.3
87.5°	14.7	20.0	21.4	21.5	22.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.8	41.4	96.1	28.0	21.1
95°	25.4	100.8	453.1	156.8	96.7
97.5°	46.7	118.1	697.9	499.4	342.2
100°	61.5	128.4	751.0	760.7	585.9
102.5°	77.9	139.4	739.3	973.7	821.1
105°	103.5	157.0	678.7	1198.9	1139.7
107.5°	129.5	177.4	608.0	1262.3	1315.0
110°	147.5	192.3	567.4	1238.0	1356.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.6	207.2	540.0	1180.6	1349.4
115°	192.4	232.5	514.7	1090.3	1280.3
117.5°	216.8	254.4	499.6	991.5	1192.8
120°	236.3	267.8	498.0	935.1	1127.9
122.5°	252.0	283.5	494.1	885.5	1064.7
125°	271.5	301.1	491.2	815.2	974.6
127.5°	292.8	320.5	489.7	773.1	904.5
130°	303.7	331.4	487.3	743.8	858.4
132.5°	315.4	342.4	487.3	721.0	826.4
135°	332.0	359.7	485.4	688.6	778.3
137.5°	347.7	374.6	485.2	661.1	738.7
140°	359.4	387.1	484.4	638.4	712.9
142.5°	372.7	395.8	486.7	620.3	687.1
145°	391.6	411.7	489.3	595.9	649.4
147.5°	407.8	427.3	493.6	571.4	617.6
150°	421.9	435.2	495.1	563.2	595.7
152.5°	432.8	446.9	496.7	552.3	582.4
155°	447.3	457.8	501.0	538.6	560.5
157.5°	465.2	471.5	502.0	532.4	548.0
160°	474.6	479.4	505.9	527.6	541.0
162.5°	480.1	485.6	506.6	523.7	534.0
165°	494.1	496.1	506.8	517.8	525.4
167.5°	503.7	502.0	511.3	516.3	519.3
170°	506.8	505.9	509.8	510.8	514.7
172.5°	513.9	510.6	512.1	509.3	512.3
175°	517.6	514.7	512.7	509.7	505.9
177.5°	519.1	514.6	512.1	509.0	509.8
180°	513.7	513.7	513.7	513.7	513.7

(END OF REPORT)